

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Nelson Liang An Chang et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date: Herewith

Group Art Unit:

Title: SYSTEMS AND METHODS OF INTERFACING WITH A MACHINE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **ER212308338US**

Date of Deposit **Jan. 23, 2004**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: **Edouard Garcia**

Respectfully submitted,

Nelson Liang An Chang et al.

By

Edouard Garcia

Attorney/Agent for Applicant(s)

Reg. No. **38,461**

Date: **Jan. 23, 2004**

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 200310822-1	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT Nelson Liang An Chang et al.		
	FILING DATE Herewith	GROUP	

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	6,614,422	Sep. 2, 2003	Rafii et al.	
	1B	6,538,645	Mar. 25, 2003	Juang et al.	
	1C	6,408,257	June 18, 2002	Harrington et al.	
	1D	6,252,598	June 26, 2001	Segen	
	1E	6,204,852	Mar. 20, 2001	Kumar et al.	
	1F	6,160,899	Dec. 12, 2000	Lee et al.	
	1G	6,147,678	Nov. 14, 2000	Kumar et al.	
	1H	6,084,557	July 4, 2000	Ishida et al.	
	1I	6,043,805	Mar. 28, 2000	Hsieh	
	1J	5,821,922	Oct. 13, 1998	Sellers	
	1K	5,767,842	June 16, 1998	Korth	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	WO01/54110	7/26/01	Taylor		
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Leibe B, Starner T, Ribarsky W, Wartell Z, Krum D, Singletary B, Hodges L (2000) Toward spontaneous interaction with the perceptive workbench. IEEE Comput Graph Appl 20(6):54--65
1R	Kiyoshi Kiyokawa, Yoshinori Kurata, Hiroyuki Ohno, "An Optical See-through Display for Enhanced Augmented Reality", Poster Proceedings of Graphics Interface 2000 (GI 2000), pp.10-11, Montreal, 2000.
1S	Thad Starner, et al., The perceptive workbench: Computer-vision-based gesture tracking, object tracking, and 3D Reconstruction for Augmented Desks," Machine Vision and Applications, Springer-Verlag, 14: 59-71 (2003)

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	2A	5,732,227	Mar. 24, 1998	Kuzunuki et al.	
	2B	5,617,312	Apr. 1, 1997	Iura et al.	
	2C	5,239,373	Aug. 24, 1993	Tang et al.	
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	2F	2003/0020707	Jan. 30, 2003	Kangas et al.	
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	2H	2002/0158873	Oct. 31, 2002	Williamson	
	2I	2002/0036617	Mar. 28, 2002	Pryor	
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	2L					
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	2N					
	2O					
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	2Q	Gudrun Klinker, Klaus Ahlers, David Breen, Pierre-Yves Chevalier, Chris Crampton, Douglas Greer, Dieter. Koller, Andre Kramer, Eric Rose, Mihran Tuceryan and Ross Whitaker, "Confluence of Computer Vision and Interactive Graphics for Augmented Reality", [Figures], Presence: Teleoperations and Virtual Environments, Vol. 6, No. 4, pp. 433-451, August 1997.
	2R	Klaus H. Ahlers, Andr'e Kramer, David E. Breen, Pierre-Yves Chevalier, Chris Crampton, Eric Rose, Mihran Tuceryan, Ross T. Whitaker and Douglas Greer, "Distributed Augmented Reality for Collaborative Design Applications", Eurographics '95 Proceedings (Elsevier Science Publishers B.V., Maastricht, NL, August 1995) pp. 3-14
	2S	Lievin M. and Keeve E., "Stereoscopic Augmented Reality System for Computer Assisted Surgery," CARS 2001, Berlin, Germany, June 27-30, 2001.

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	3L					
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3Q	Jun Rekimoto, "The Magnifying Glass Approach to Augmented Reality Systems", International Conference on Artificial Reality and Tele-Existence '95 / Conference on Virtual Reality Software and Technology (ICAT/VRST '95).
3R	Gaile Gordon et al., "The Use of Dense Stereo Range Data in Augmented Reality," International Symposium on Mixed and Augmented Reality (ISMAR 02), September 30 - October 01, 2002
3S	Daniel Wagner, Dieter Schmalstieg, "First Steps Towards Handheld Augmented Reality," Proceedings of the 7th International Conference on Wearable Computers, White Plains, NY, USA, Oct. 21-23, 2003.

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	4L					
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4Q	D. Mogilev, K. Kiyokawa, M. Billingham, "AR Pad: An Interface for Face-to-Face AR Collaboration," Proceedings of the ACM Conference on Human Factors in Computing Systems 2002 (CHI '02), Minneapolis, pp.654-655, 2002.
4R	Jun Rekimoto, "The World through the Computer: Computer Augmented Interaction with Real World Environments," ACM Symposium on User Interface Software and Technology (1995)
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